PRECISION PRODUCTS GROUP, INC.

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# Type HS – Heat Shrink Polyester Sleeving

*Bulletin #S-1*

- This HS (Heat Shrinkable) sleeving is produced by spirally winding strips of heat shrinkable polyester (Polyethylene Teraphthalate or PET) film into a tubular form. The tube is made using a special adhesive as a bonding agent. This adhesive is a uniquely formulated polyester resin that is chemically similar to and has properties comparable to the polyester film.

- Since the adhesive is thermoplastic, it softens sufficiently when heat is applied to permit stress-free shrinkage throughout the sleeving. The sleeving will shrink in a few seconds if passed through an air-circulating oven at a temperature of 150°C. The sleeving will shrink to a determinable inside diameter at a preset temperature. Once the sleeving has been shrunk, it will remain dimensionally stable at the shrinking temperature or lower temperatures.

**Heat Shrinkable Polyester sleeving is available within the following specifications:**

| | |
|---|---|
| Inside diameters | .026” to 2.000” |
| Wall thickness | .0015” to .012” with limitations for smaller diameters |
| Lengths | Up to 36” |

Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.

- Sleeving can be supplied in clear, opaque and striped colors.

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**General Properties of Type HS Polyester Sleeving**

| Properties | Data | Test Method |
|---|---|---|
| Melting point | 250°C to 255°C | - |
| Service temperature | -60°C to 150°C | - |
| Dielectric strength | 2500 volts/mil (min) @ 25°C, 60 cycle | ASTM D-149 |
| Dielectric strength | 2000 volts/mil (min) @ 150°C, 60 cycle | ASTM D-149 |
| Diameter shrinkage | 35-50% | - |
| Length shrinkage* | 25-50% | - |
| *Note: shrinkage properties vary depending on diameter, wall thickness and application methods. | | |
| Water absorption | .75% max, 24 hr. immersion @ 25°C | ASTM D-570-595 |
| Corrosive effect on copper | Negligible | - |
| Resistance to industrial solvents | Excellent | - |
| Resistance to Freon | Excellent | - |
| Transformer oil resistance | Excellent | - |
| Chemical resistance to acids, bases, impregnants & varnishes | Excellent | - |
| Fungus and bacteria resistance | Inert | - |
| Bending recovery | Excellent | - |
| Tear resistance | Excellent | - |
| Puncture resistance | Good | - |
| Abrasion resistance | Good | - |
| Peel strength | 357 grams/CM (min) | - |
| Flammability* | | |
| * Slow burning self-extinguishing; will not support combustion after shrinkage on nonflammable components. | | |

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